

LaJuana S. Wilcher
Secretary

AIR QUALITY PERMIT

Issued under 401 KAR 52:040
State-origin Permits

Ernie Fletcher
Governor



Commonwealth of Kentucky
Natural Resources and Environmental Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382

Permittee Name: Little River Dry Kilns
Mailing Address: 141 Cerulean Road, Cadiz, Kentucky 42211

is authorized to construct/operate a woodworking facility for flooring industry

Source Name: Little River Dry Kilns

Source Location: same as the above

Source ID #: 021-221-00013

Source AI Number: 6825

Activity ID: APE20050001

Permit Number: S-05-131

SIC Code: 2421

County: Trigg

Permit Type: Construction/ Operating

Regional Office: Paducah
4500 Clark River Road
Paducah, KY 42003-0823

Issuance Date: August 5, 2005

Expiration Date: August 5, 2015

John S. Lyons, Director
Division for Air Quality

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Little River Dry Kilns

Subject Item Inventory

Activity ID No.: APE20050001

Subject Item Inventory:

ID	Designation	Description
AIOO6825		
AREA2	EP2 - Insignificant	Wood Waste Storage-2005
AREA4	EP11- Insignificant	Haul Road-2005
COMB1	EP9	4 mmBtu/hr Wood Waste Boiler-2005
COMB2	EP10- Insignificant	2 mmBtu/hr Natural Gas Boiler-2005
EQPT1	EP3	Green Lumber End Cut Saw Line-2005
EQPT2	EP4 - Insignificant	Saw Dust Transfer and Convey-2005
EQPT3	EP5 - Insignificant	Grinder and Screen-2005
EQPT4	EP6- Insignificant	Wood waste Transfer and Convey-2005
EQPT5	EP7	Dried lumber Planer Line-2005
EQPT6	EP8 - Insignificant	Dried SawDust Transfer and Convey-2005
EQPT7	EP1- Insignificant	Wood Waste Receiving-2005

Subject Item Groups:

ID	Description	Components
GACT1	EPs-1, 2, 4, 5, 6,10, and 11	AREA4 Haul Road-2005
		COMB2 2 mmBtu/hr Natural Gas Boiler-2005
		EQPT2 Saw Dust Transfer and Convey-2005
		EQPT3 Grinder and Screen-2005
		EQPT4 Wood waste Transfer and Convey-2005
		EQPT6 Dried SawDust Transfer and Convey-2005
		EQPT7 Wood Waste Receiving-2005

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Subject Item Inventory

Activity ID No.: APE20050001

ID	Description	Components
GACT1	EPs-1, 2, 4, 5, 6,10, and 11	AREA2 Wood Waste Storage-2005

KEY

ACTV = Activity

AREA = Area

EQPT = Equipment

PERS = Personnel

STOR = Storage

TRMT = Treatment

AIOO = Agency Interest

COMB = Combustion

MNPT = Monitoring Point

PORT = Transport

STRC = Structure

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Submittal/Action Requirements:

Condition No.	Condition
S-1	<p>SEMIANNUAL REPORTS:</p> <p>The permittee shall submit report(s): Due semiannually, by the 30th of January and July to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit. This report shall be a summary of any monitoring required by this permit, other than continuous emission or opacity monitors. For emission units that had not yet begun construction, were still under construction, or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation. All reports shall be certified by a responsible official. All deviations from permit requirements shall be clearly identified in the reports. [401 KAR 52:040 Section 21]</p>
S-2	<p>COMPLIANCE CERTIFICATION:</p> <p>The permittee shall certify compliance with the terms and conditions contained in this permit and shall submit compliance certification: Due annually, by the 30th of January to the Regional Office listed on the front of this permit. Compliance Certification Form (DEP 7007CC) (or an approved alternative) shall be used in accordance with the following requirements:</p> <ol style="list-style-type: none">Identification of the term or condition;Compliance status of each term or condition of the permit;Whether compliance was continuous or intermittent;The method used for determining the compliance status for the source, currently and over the reporting period, andFor emission units that had not yet begun construction, were still under construction, or which had not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is not in operation and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the Regional Office listed on the front of this permit and the following address: <p>Division for Air Quality Central Files 803 Schenkel Lane Frankfort, KY 40601 [401 KAR 52:040 Section 19]</p>

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Submittal/Action Requirements:

Condition No.	Condition
S-3	<p>NOTIFICATION:</p> <p>The following information shall be reported:</p> <ol style="list-style-type: none">Date when construction commenced, (See Requirement H1.).Start-up date of each of the affected facilities listed on this permit.Date when maximum production rate was achieved, (See Requirement H2.). The permittee shall submit information: Due within 30 days after construction commencement or within 15 days following start-up and attainment of maximum production rate, or within 15 days following the issuance date of this permit, whichever is later, to the Regional Office listed on the front of this permit, with a copy to the Division's Frankfort Central Office. [401 KAR 59:005 Section 3(1)]
S-4	<p>PERFORMANCE TESTS:</p> <p>Pursuant to 401 KAR 50:045, Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least Thirty (30) days prior to the test. submit Compliance Test Protocol (Form DEP 6027): Due at least 30 days prior to performance/emissions test. [401 KAR 50:045 Section 2]</p>
S-5	<p>PERFORMANCE TEST REPORT:</p> <p>For any performance test(s) required by this permit, the permittee shall submit performance/emission test results: Due within 1 week to the Division. [401 KAR 52:040 Section 10]</p>
S-6	<p>PERMIT EXPIRATION AND REAPPLICATION REQUIREMENTS:</p> <p>This permit shall remain in effect for a fixed term of ten (10) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division. The permittee shall submit permit application for renewal: Due 180 calendar days before permit expiration date to the Division. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:040 Section 15]</p>

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Narrative Requirements:

Condition No.	Condition
T-1	SECTION A. PERMIT AUTHORIZATION. [401 KAR 52:040]
T-2	<p>A1. Pursuant to a duly submitted application, the Kentucky Division for Air Quality hereby authorizes the construction and operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.</p> <p>The permittee shall not construct, reconstruct, or modify an affected facility without first having submitted a complete application and receiving a permit for the planned activity from the Division, except as provided in this permit or in 401 KAR 52:040, State-origin permits.</p> <p>Issuance of this permit does not relieve the permittee from the responsibility of obtaining other permits, licenses, or approvals that may be required by the Cabinet or other federal, state, or local agencies. [401 KAR 52:040]</p>
T-3	SECTION B. ADMINISTRATIVE REQUIREMENTS. [401 KAR 52:040]
T-4	B1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:040, Section 3(1)(b) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit. [401 KAR 52:040 Section 3(1)(b)]
T-5	B2. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1a (11)]. [401 KAR 52:040 Section 23]
T-6	B3. This permit may be revised, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance shall not stay any permit condition. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1a (4) and (5)]. [401 KAR 52:040 Section 23]
T-7	B4. This permit does not convey property rights or exclusive privileges. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1a, 8]. [401 KAR 52:040 Section 23]
T-8	B5. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 52:040 Section 11(3)]
T-9	B6. This permit shall be subject to suspension at any time the permittee fails to pay all fees within 90 days after notification as specified in 401 KAR 50:038 Section 3(6)(b), Air emissions fee. The permittee shall submit an annual emissions certification. [401 KAR 52:040 Section 20]
T-10	B7. All previously issued construction and operating permits are hereby null and void. [401 KAR Chapter 52]

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Narrative Requirements:

Condition No.	Condition
T-11	SECTION C. RECORD KEEPING REQUIREMENTS. [401 KAR 52:040]
T-12	C1. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of at least five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Sections 1b (IV)(2) and 1a (7)]. [401 KAR 52:040 Section 23]
T-13	C2. The permittee shall perform compliance certification and recordkeeping sufficient to assure compliance with the terms and conditions of the permit. Documents, including reports, shall be certified by a responsible official. [401 KAR 52:040 Section 21]
T-14	SECTION D. REPORTING REQUIREMENTS. [401 KAR 52:040]
T-15	D1. a. The permittee shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows i. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown. ii. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request. b. The permittee shall promptly report deviations from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Reporting Requirement condition D1.a above), the probable cause of the deviation, and corrective or preventive measures taken; to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1b, V(3)]. [401 KAR 50:055 Section 1]
T-16	D2. The permittee shall furnish information requested by the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the permit. [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1a, 6]. [401 KAR 52:040 Section 23]
T-17	SECTION E. INSPECTIONS. [401 KAR 52:040]
T-18	E1. The permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times: a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation; b. To access and copy any records required by the permit; c. Inspect any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit. d. Sample or monitor substances or parameters to assure compliance with the permit or any applicable requirements. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency. [401 KAR 52:040 Section 3(1)(f)]

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Narrative Requirements:

Condition No.	Condition
T-19	SECTION F. EMERGENCIES/ENFORCEMENT PROVISIONS. [401 KAR 52:040]
T-20	F1. The permittee shall not use as defense in an enforcement action, the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Cabinet Provisions and Procedures for Issuing State Origin Permits, Section 1a, 3]. [401 KAR 52:040 Section 23]
T-21	F2. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that: a. An emergency occurred and the permittee can identify the cause of the emergency; b. The permitted facility was at the time being properly operated; c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and d. The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency and included a description of the emergency, steps taken to mitigate emissions, and corrective actions taken. These provisions are in addition to any emergency or upset provision contained in an applicable requirement. [401 KAR 52:040 Section 22(1)]
T-22	F3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:040 Section 22(2)]
T-23	SECTION G. COMPLIANCE. [401 KAR 52:040]
T-24	G1. Periodic testing or instrumental or non-instrumental monitoring, which may consist of record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstration of continuing compliance with the conditions of this permit. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed: a. Pursuant to 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation at any time an affected facility for which the equipment and measures are designed is operated, except as provided by 401 KAR 50:055, Section 1. b. All the air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers. A log shall be kept of all routine and non routine maintenance performed on each control device. c. A log of the monthly raw material consumption and/or monthly production rates shall be kept available at the facility. Compliance with the emission limits may be demonstrated by computer program, spread sheets, calculations or performance tests as may be specified by the Division. [401 KAR 50:055 Section 2]

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Narrative Requirements:

Condition No.	Condition
T-25	G2. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with all: (a) Applicable requirements that are included and specifically identified in this permit; or (b) Non-applicable requirements expressly identified in this permit. [401 KAR 52:040 Section 11]
T-26	SECTION H. CONSTRUCTION REQUIREMENTS. [401 KAR 52:040]
T-27	H1. Unless construction is commenced on or before 18 months after the date of issue of this permit, or if construction is commenced and then stopped for any consecutive period of 18 months or more, or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon a written request, the cabinet may extend these time periods if the source shows good cause. [401 KAR 52:040 Section 12(3)]
T-28	H2. Unless notification and justification to the contrary are received by this Division, the date of achieving the maximum production rate at which the affected facilities will be operated shall be deemed to be 30 days after initial start-up. [401 KAR 59:005 Section 3(1)(b)]
T-29	H3. Operation of the affected facilities authorized by this permit shall not commence until compliance with applicable standards specified herein has been demonstrated in accordance with the requirements of 401 KAR 52:040, Section 12(4)(a) and (b). Until compliance is demonstrated, the source may only operate for the purpose of demonstrating compliance. [401 KAR 52:040 Section 12(4)(b)]
T-30	H4. If a demonstration of compliance, through performance testing was made at a production rate less than the maximum specified in the application form, then the permittee is only authorized to operate at a rate that is not greater than 110 percent of the rate demonstrated during performance testing. If and when the facility is capable of operation at the rate specified in the application, compliance must be demonstrated at the new production rate if required by the Division. [401 KAR 50:045]

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COMB1 (EP9) 4 mmBtu/hr Wood Waste Boiler-2005:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	SO2 (Sulfur Dioxide)	<p>The unit shall have emissions of SO2 (Sulfur Dioxide) ≤ 5.0 lb/mm Btu actual heat input</p> <p>Compliance Demonstration:</p> <p>Continual compliance with SO2 standard is demonstrated, based on AP-42, Table 1.6-1 emission factor of 0.025 for a wet wood-fired boiler. [401 KAR 59:015 Section 5(1)] This requirement is applicable during the following months: All Year. Statistical basis: Three-hour average.</p>
L-2	PT (Particulate Matter)	<p>The unit shall have emissions of PT (Particulate Matter) ≤ 0.56 lb/mm Btu actual heat input</p> <p>Compliance Demonstration:</p> <p>Continual compliance with PT standard is demonstrated, based on AP-42, Table 1.6-1 emission factor of 0.22 for a wet wood-fired boiler. [401 KAR 59:015 Section 4(1)] This requirement is applicable during the following months: All Year. Statistical basis: Three-hour average.</p>

Narrative Requirements:

Applicable Regulations:

Condition No.	Condition
T-1	<p>Applicable Regulations:</p> <p>New Indirect Heat Exchangers applies to a new afcetd facility less than 250 mmBtu/hr, which commenced on or after April 9, 1972. [401 KAR 59:015]</p>

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Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-2	<p>Additional Limitations:</p> <p>While burning a new fire there is not applicable opacity limit on visible emissions from the unit provided the manufacturer recommended method is used to build the fire and the manufacturer recommended time frame for bringing the boiler to operating conditions is not exceeded. [401 KAR 59:015 Section 4(2)]</p>

Recordkeeping:

Condition No.	Condition
T-3	Recordkeeping: Record and maintain records of the amount of each fuel combusted by the unit during each day. [401 KAR 52:040 Section 10]

Monitoring:

Condition No.	Condition
T-4	<p>Monitoring:</p> <p>a) The permittee shall monitor the amount of wood material combusted from each wood boiler on a monthly basis. [401 KAR 52:040 Section 10]</p> <p>b) The permittee shall perform a qualitative visual observation of the opacity from the stack on a weekly basis and maintain a log of the observation. If visible emissions from the stack are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of the control equipment for any necessary repairs. [401 KAR 50:040 Section 10]</p>

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EQPT1 (EP3) Green Lumber End Cut Saw Line-2005:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	PT (Particulate Matter)	<p>Each unit shall have a maximum emissions of PT (Particulate Matter) ≤ 6.35 lbs/hr. If the process weight rate for the unit is 1,000 lbs/hr or less, the limit on emissions of particulate matter is 2.34 lb/hr. If the process weight rate for the unit is above 1,000 lbs/hr, the limit on emissions of particulate matter from the unit can be determined (in lbs/hr) by taking the process weight rate for materials introduced into the unit (in tons/hr), raising the process weight rate value to the 0.62 power, and multiplying by 3.59 (maximum = $3.59 \times \text{process weight rate}^{0.62}$).</p> <p>Compliance Demonstration</p> <p>Compliance will be demonstrated from the following emission calculation basis and monitoring requirements: PT emission in pounds per hour = (monthly processing rate in tons/month)(1 month/hours of operation that month)(emission factor of 3.0 lb PT/ton)(1-control efficiency of 0.75 for the building enclosure).</p> <p>See Monitoring Requirements for monitoring rates and visual inspection of controls. [401 KAR 59:010 Section 3(2)] Statistical basis: Three-hour average.</p>
L-2	Visible Emissions	<p>Each unit shall have Visible Emissions $< 20\%$ opacity</p> <p>Opacity limits - Compliance with the opacity limit is demonstrated by the building enclosure around the emission unit. [401 KAR 59:010 Section 3(1)] Statistical basis: Six-minute average.</p>

Narrative Requirements:

Applicable Regulations:

Condition No.	Condition
T-1	Applicable Regulations: New process operations is applicable to each affected facility associated with a process operation commenced after July 2, 1975 and limits particulate emissions. [401 KAR 59:010]

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Narrative Requirements:

Recordkeeping:

Condition No.	Condition
T-2	Recordkeeping: The permittee shall maintain records of the following: 1) monthly hours of operation and material processing rate; 2) the weekly log of qualitative visual observation of opacity of emissions and the opacity determined by Reference Method 9, if any were taken, and repairs that were made due to any opacity reading which exceeded the standard. [401 KAR Chapter 52 Section 10]

Monitoring:

Condition No.	Condition
T-3	Monitoring: The permittee shall monitor the amount of material processed on a monthly basis. [401 KAR 52:040 Section 10]
T-4	Monitoring: The permittee shall monitor the hours of operation of the unit on a monthly basis. [401 KAR 52:040 Section 10]

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EQPT5 (EP7) Dried lumber Planer Line-2005:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	PT (Particulate Matter)	<p>Each unit shall have a maximum emissions of PT (Particulate Matter) ≤ 11.65 lbs/hr. If the process weight rate for the unit is 1,000 lbs/hr or less, the limit on emissions of particulate matter is 2.34 lb/hr. If the process weight rate for the unit is above 1,000 lbs/hr, the limit on emissions of particulate matter from the unit can be determined (in lbs/hr) by taking the process weight rate for materials introduced into the unit (in tons/hr), raising the process weight rate value to the 0.62 power, and multiplying by 3.59 (maximum = $3.59 \times \text{process weight rate}^{0.62}$).</p> <p>Compliance Demonstration</p> <p>Compliance will be demonstrated from the following emission calculation basis and monitoring requirements: PT emission in pounds per hour = (monthly processing rate in tons/month)(1 month/hours of operation that month)(emission factor of 9.0 lb PT/ton)(1-control efficiency of 0.8 for single cyclone).</p> <p>See Monitoring Requirements for monitoring rates and visual inspection of controls. [401 KAR 59:010 Section 3(2)] Statistical basis: Three-hour average.</p>
L-2	Visible Emissions	Each unit shall have Visible Emissions < 20 % opacity. [401 KAR 59:010 Section 3(1)] Statistical basis: Six-minute average.

Narrative Requirements:

Applicable Regulations:

Condition No.	Condition
T-1	Applicable Regulations: New process operations is applicable to each affected facility associated with a process operation commenced after July 2, 1975 and limits particulate emissions. [401 KAR 59:010]

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Narrative Requirements:

Recordkeeping:

Condition No.	Condition
T-2	Recordkeeping: The permittee shall maintain records of the following: 1) monthly hours of operation and material processing rate; 2) the weekly log of qualitative visual observation of opacity of emissions and the opacity determined by Reference Method 9, if any were taken, and repairs that were made due to any opacity reading which exceeded the standard. [401 KAR Chapter 52 Section 10]

Monitoring:

Condition No.	Condition
T-3	Monitoring: The permittee shall monitor the amount of material processed on a monthly basis. [401 KAR Chapter 52 Section 10]
T-4	Monitoring: The permittee shall monitor the hours of operation of the unit on a monthly basis. [401 KAR Chapter 52 Section 10]
T-5	Monitoring: The permittee shall perform a qualitative visible observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observation. If visible emission from a stack are seen, then the opacity shall be determined by EPA Reference Method 9, and an inspection shall be initiated for any necessary repairs. [401 KAR Chapter 52 Section 10]

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GACT1 (Insignificant activities) EPs-1, 2, 4, 5, 6,10, and 11 :

Narrative Requirements:

Condition

No.

Condition

T-1

The activities within this group have been determined to be insignificant activities for this source pursuant to 401 KAR 52:040 Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary. [401 KAR 52:040 Section 6]